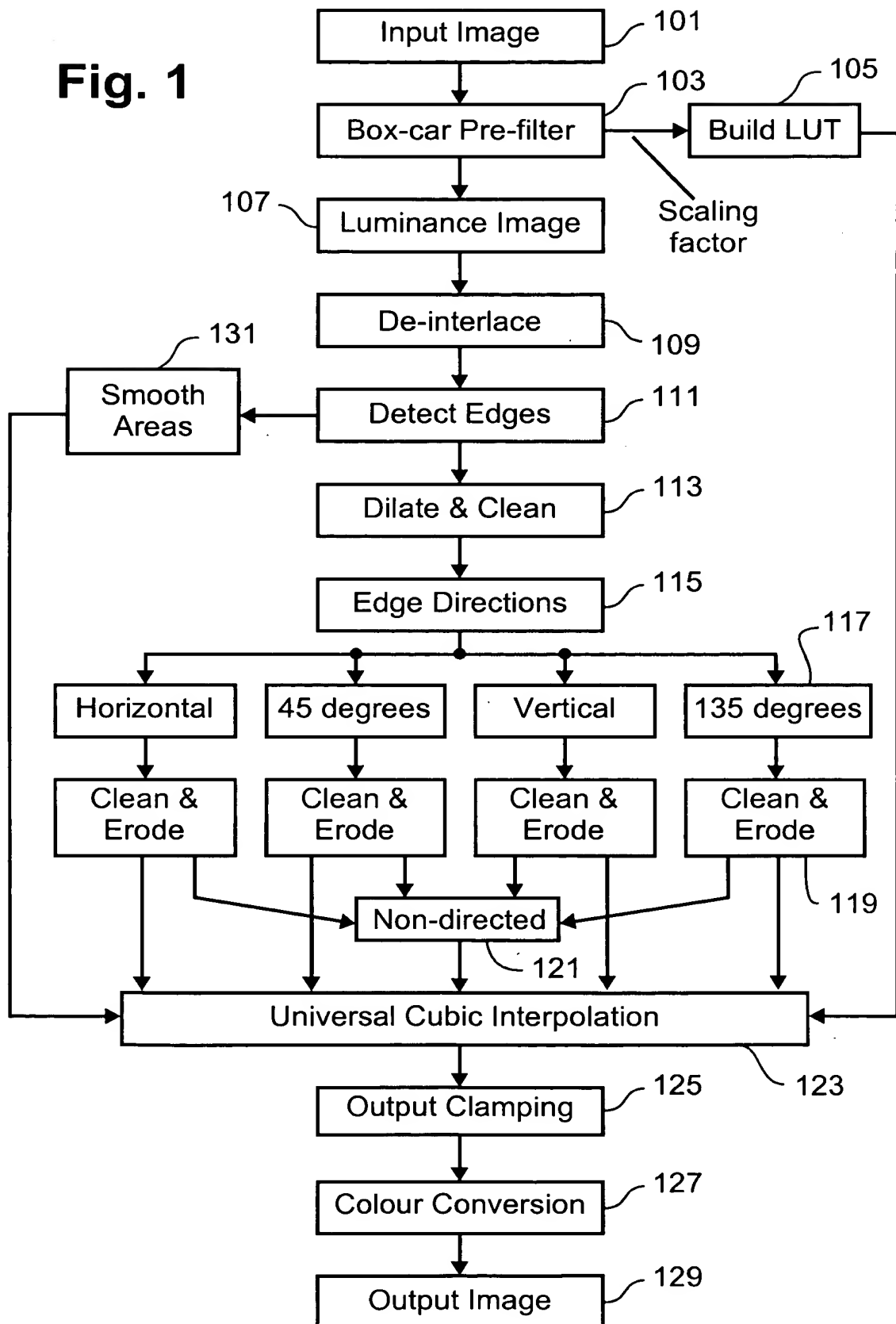
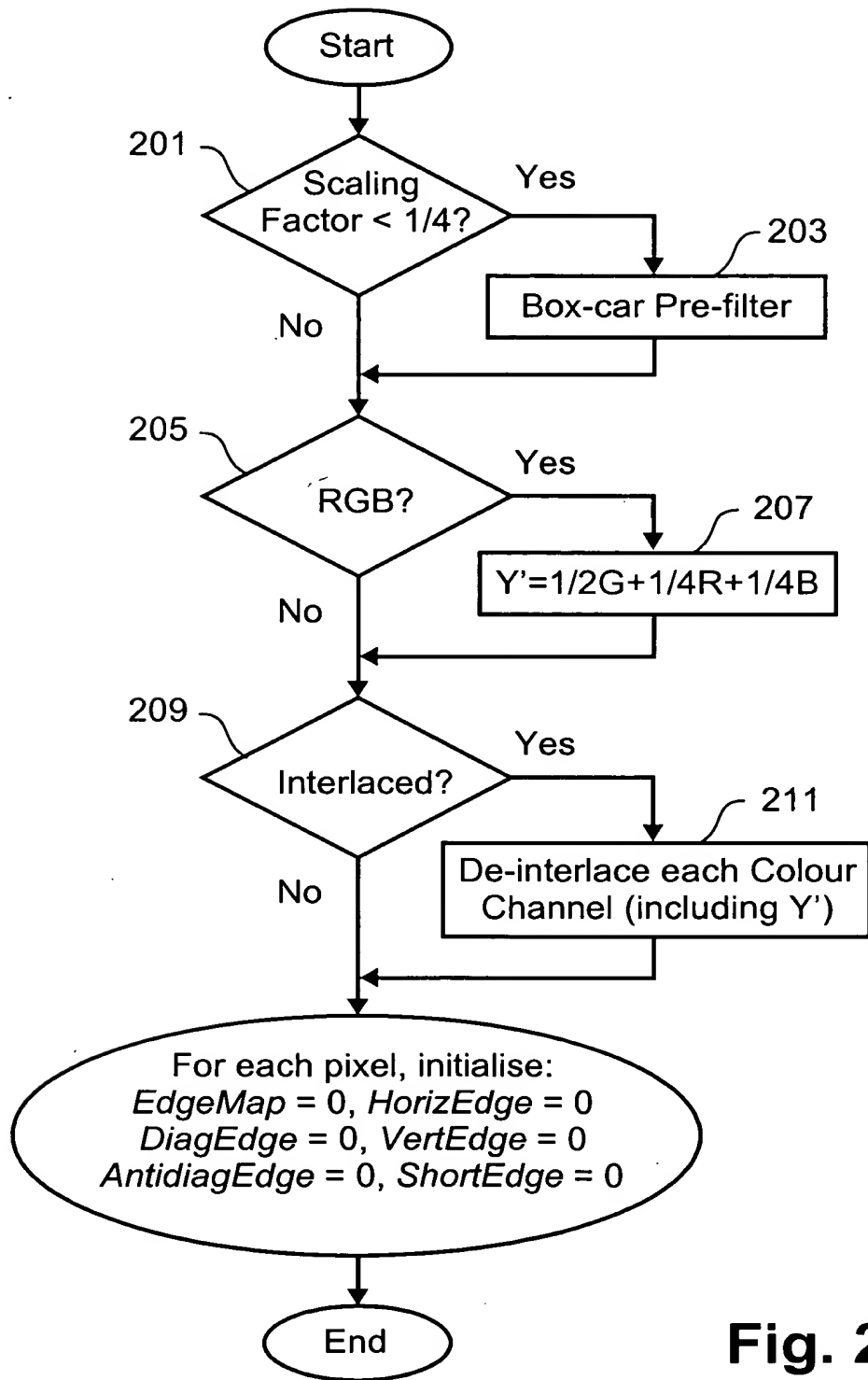


**Fig. 1**

**Fig. 2**

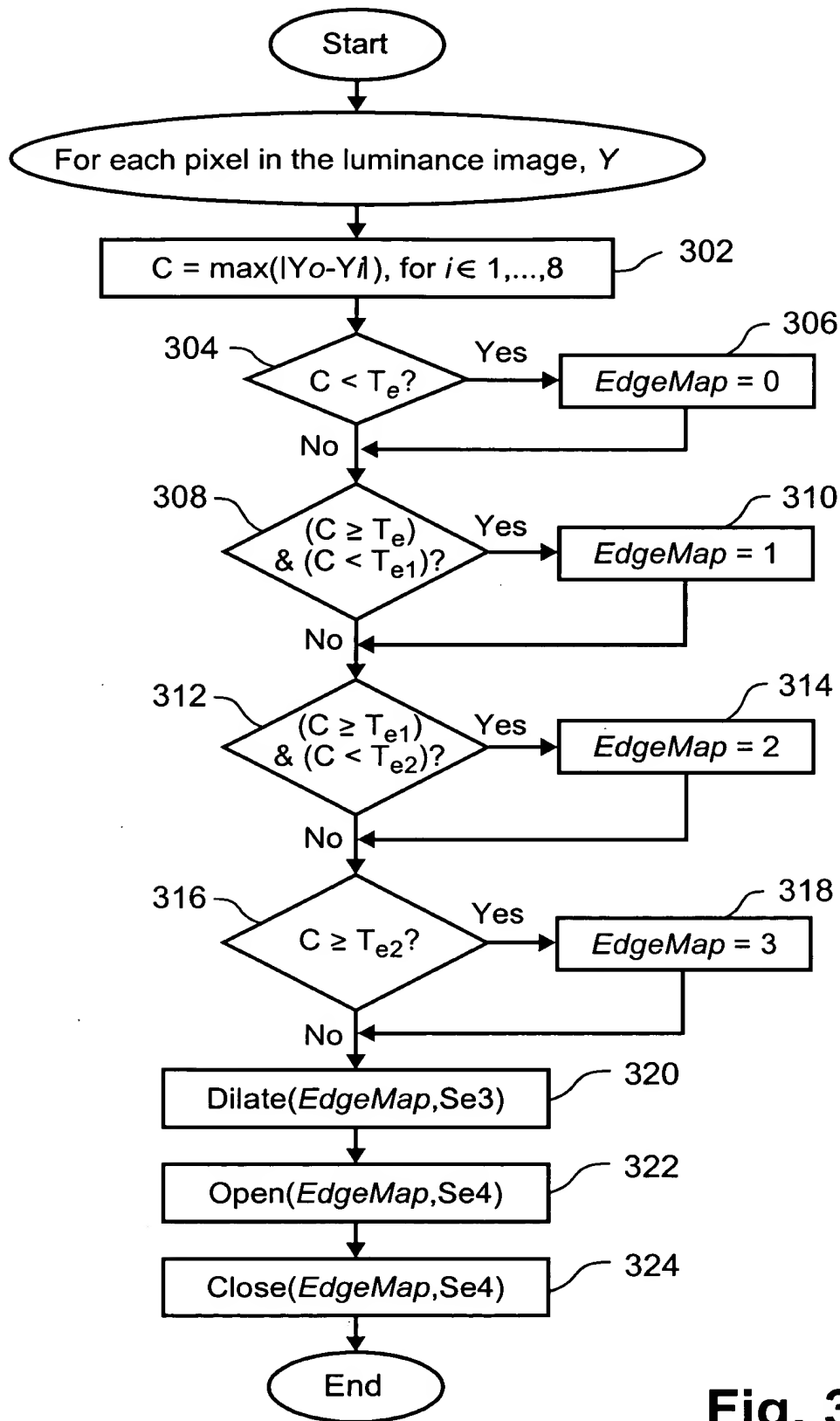
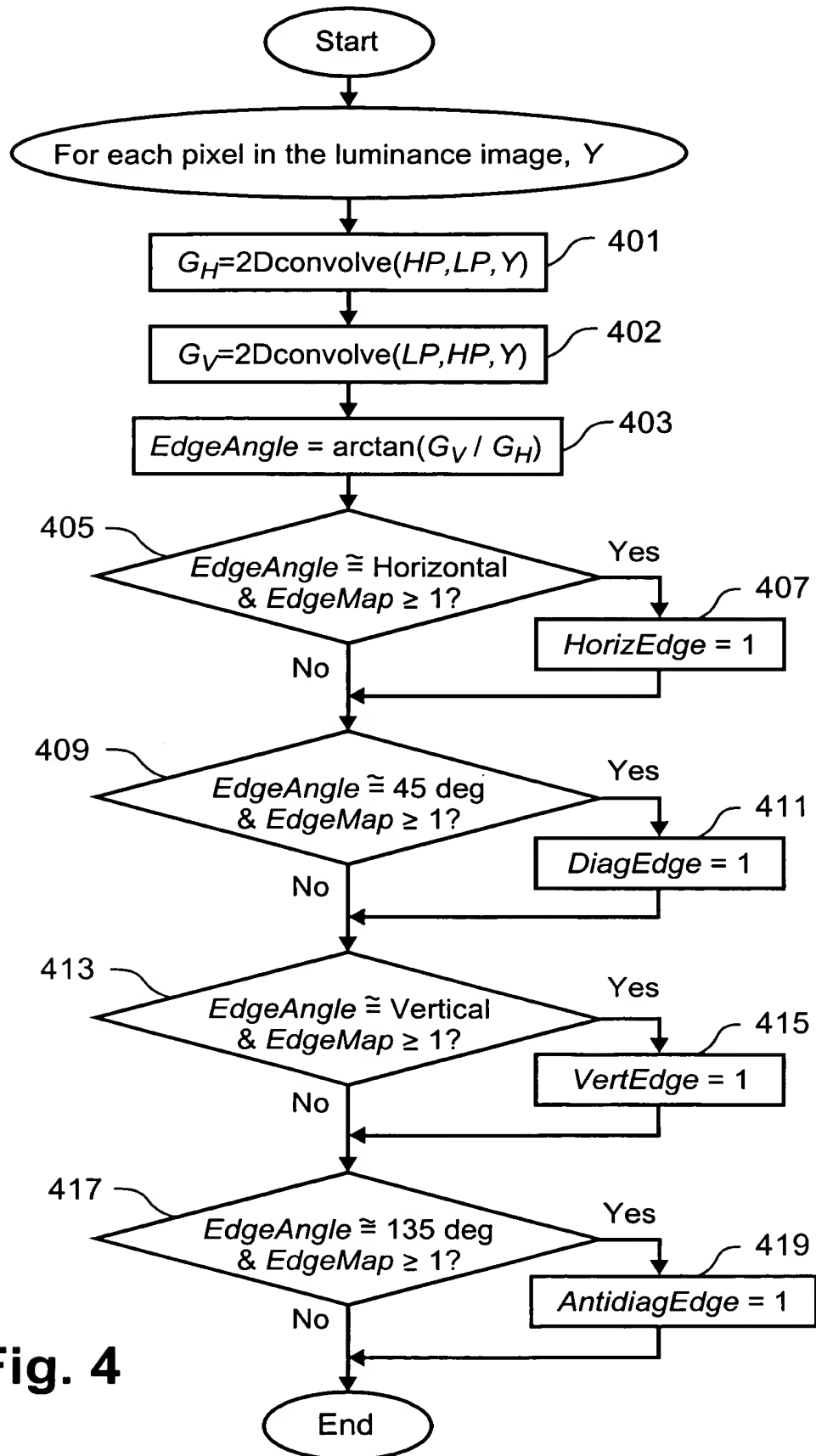
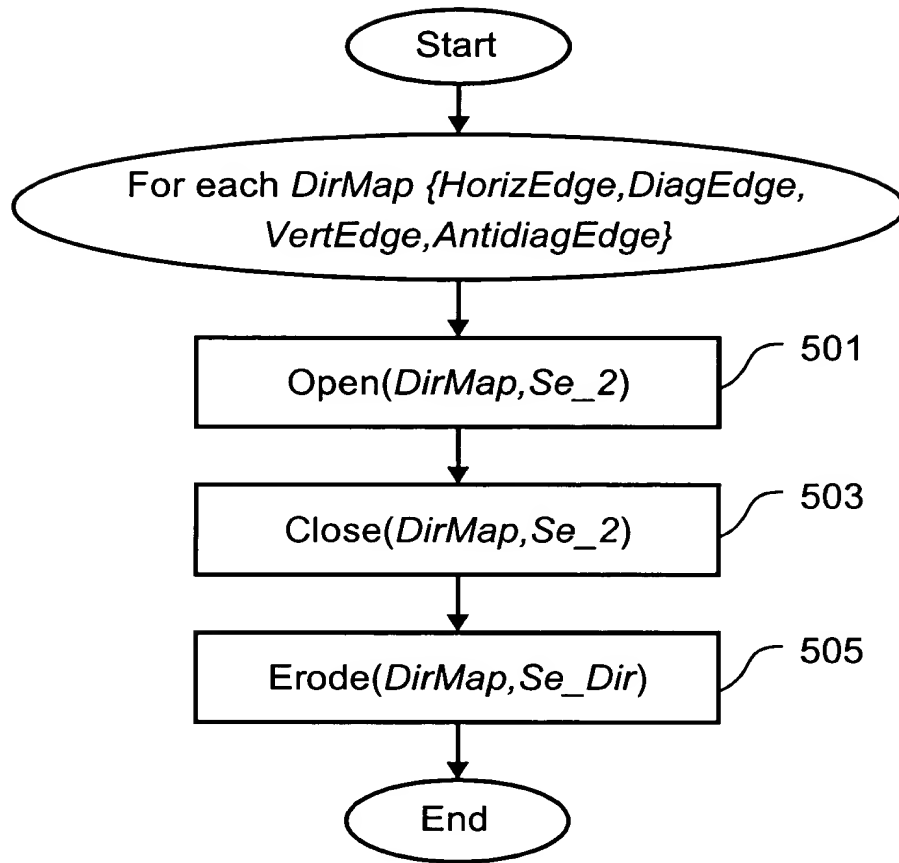
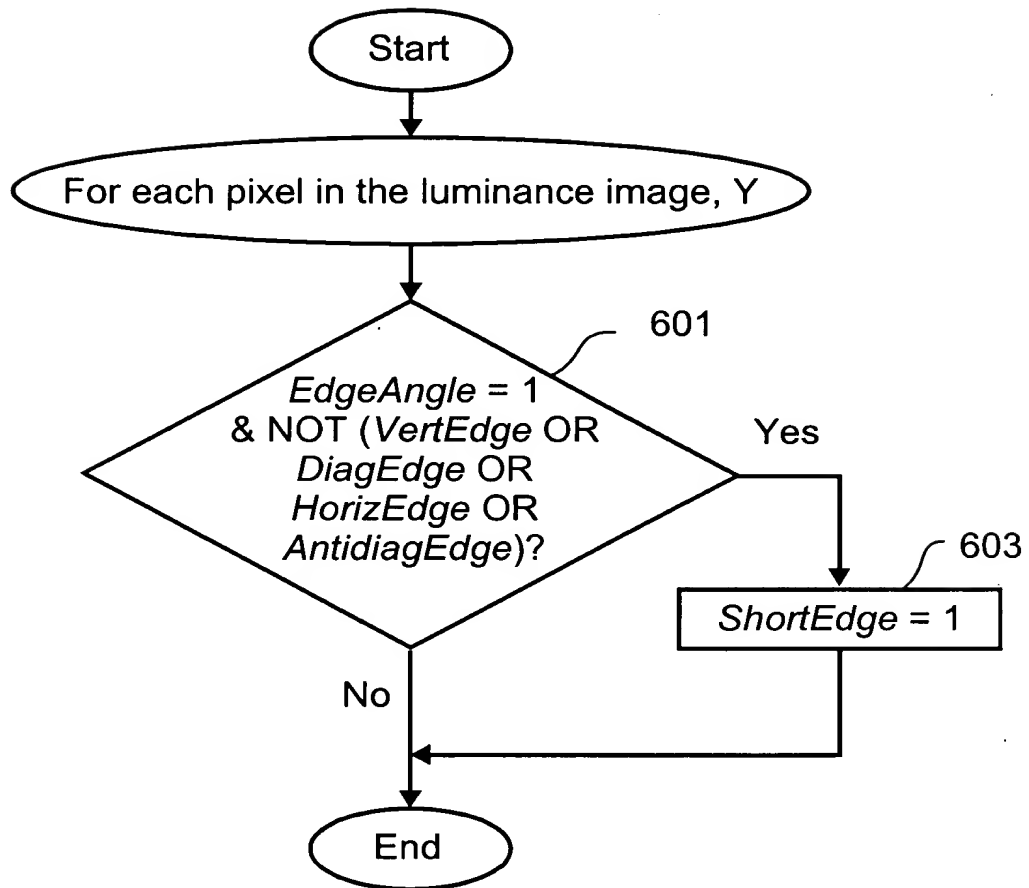


Fig. 3

**Fig. 4**

**Fig. 5**

**Fig. 6**

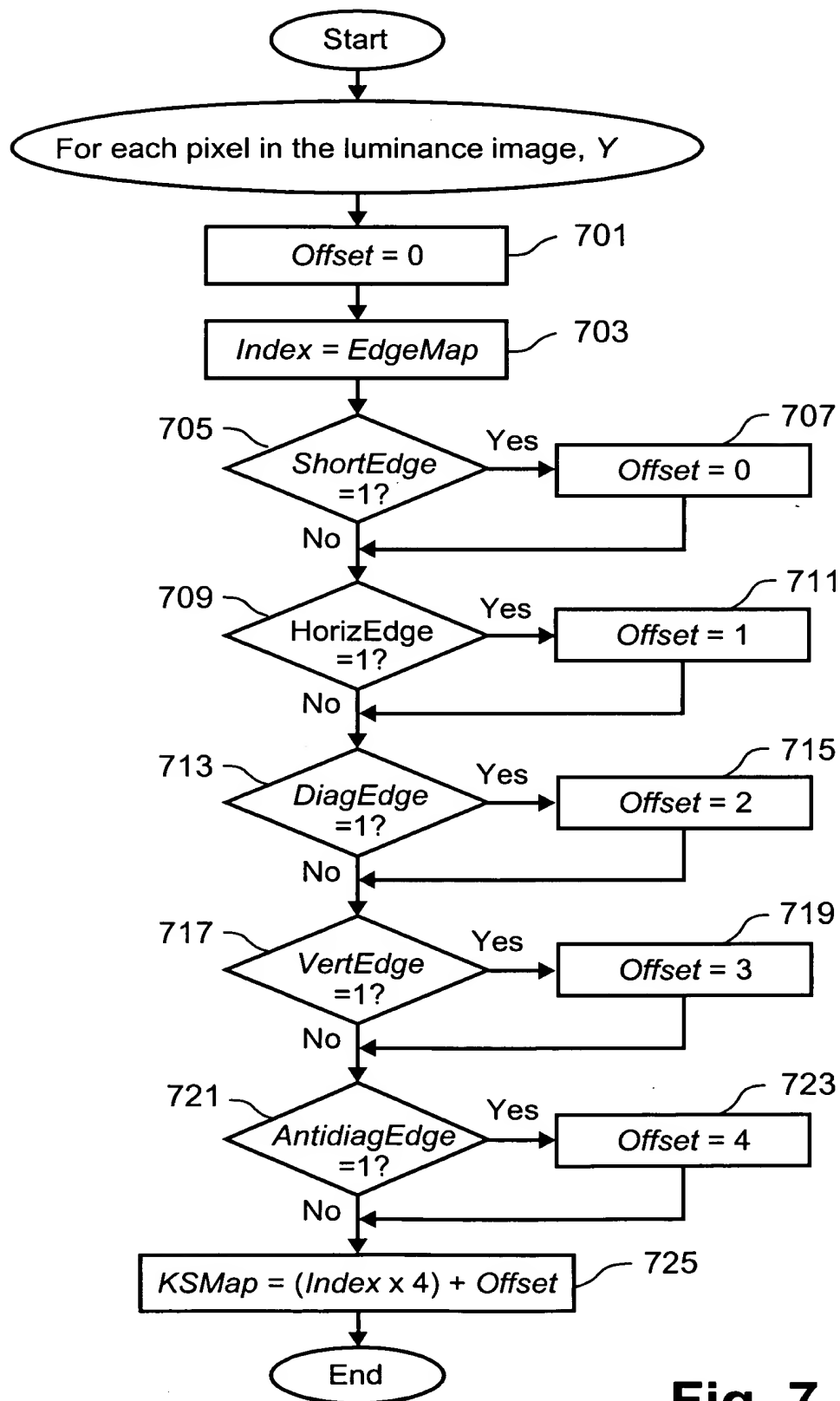
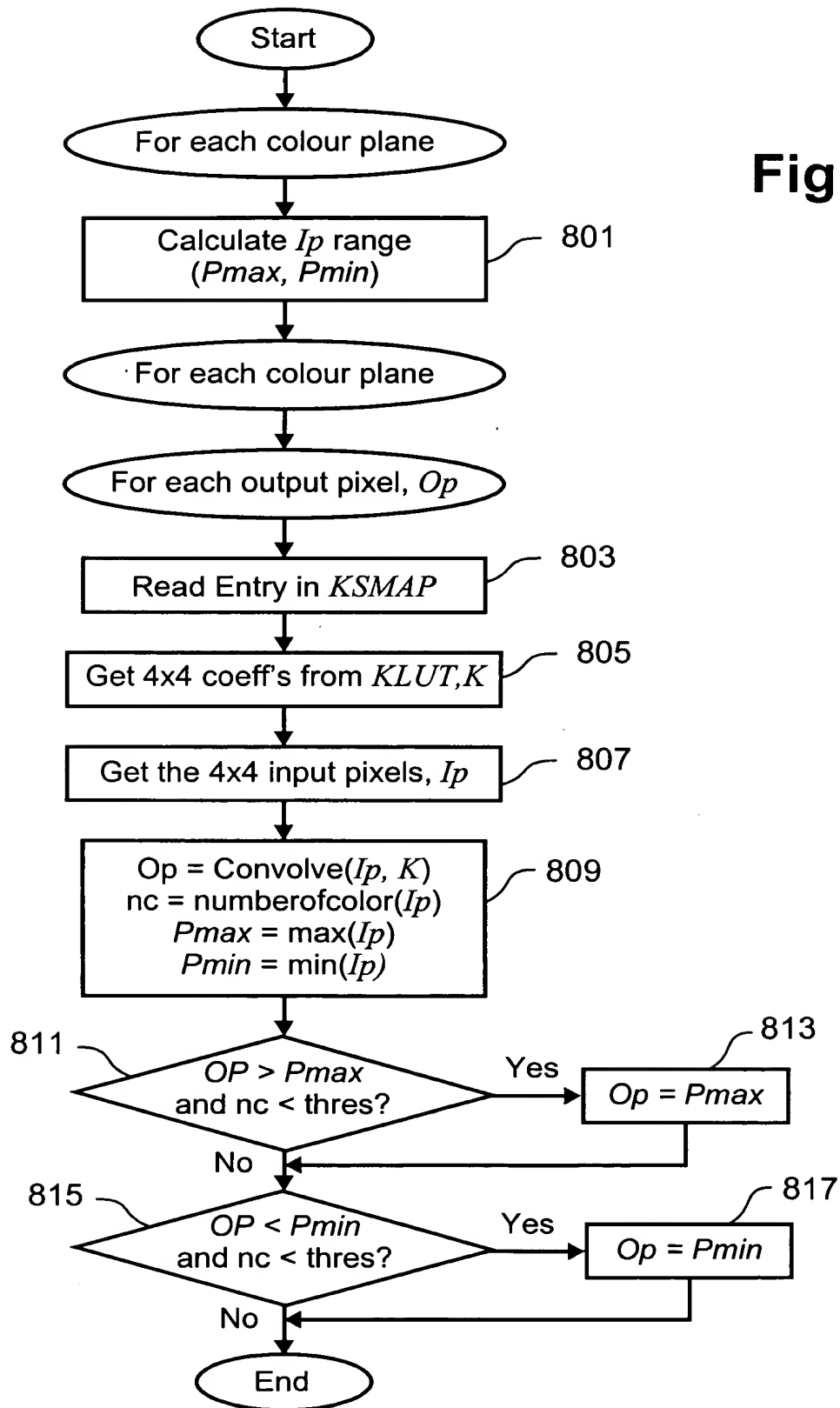
**Fig. 7**

Fig. 8



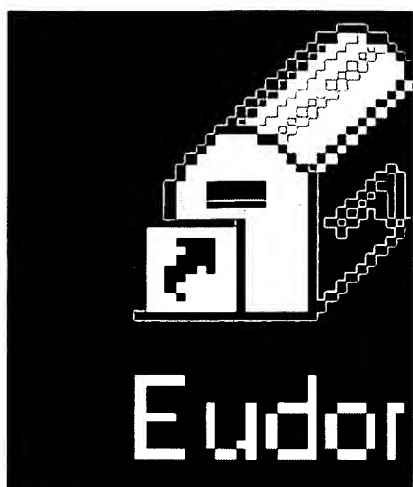


Fig. 9(a)



Fig. 9(b)

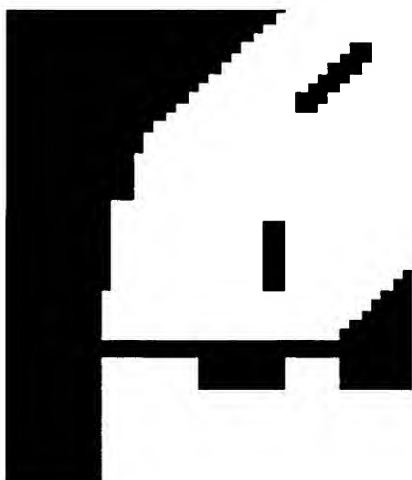


Fig. 9(c)

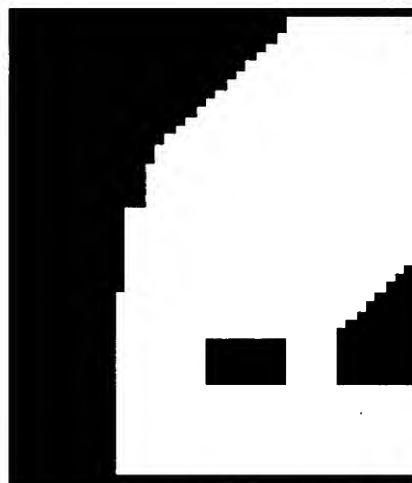


Fig. 9(d)



Fig. 9(e)



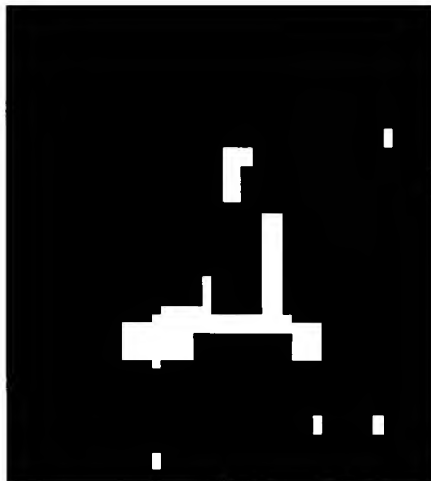
Fig. 9(f)



**Fig. 9(g)**



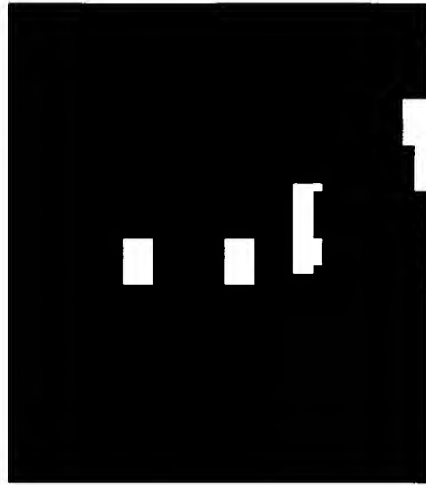
**Fig. 9(h)**



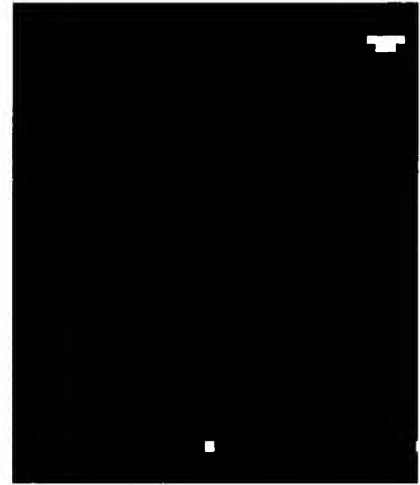
**Fig. 9(i)**



**Fig. 9(j)**



**Fig. 9(k)**



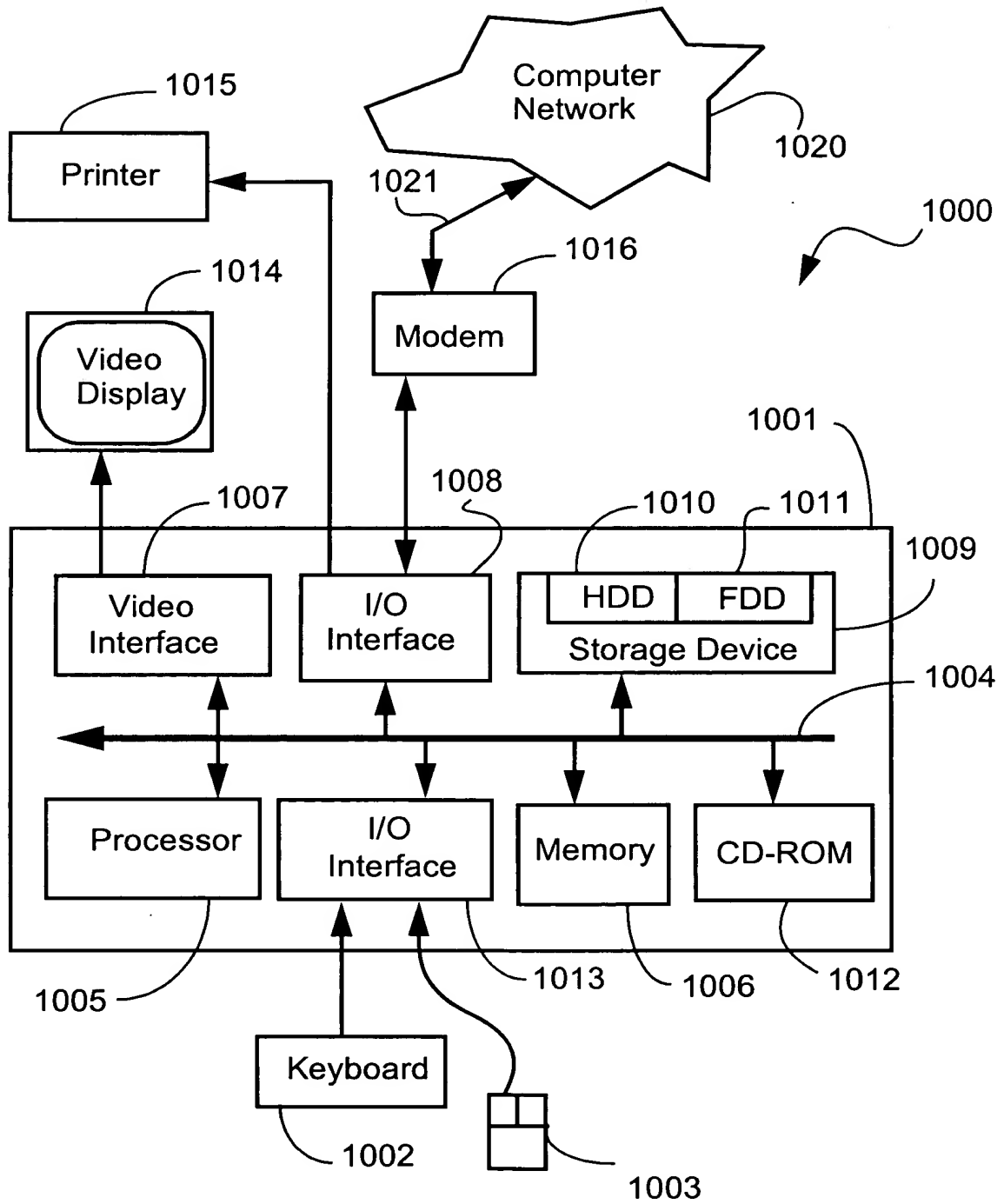
**Fig. 9(l)**

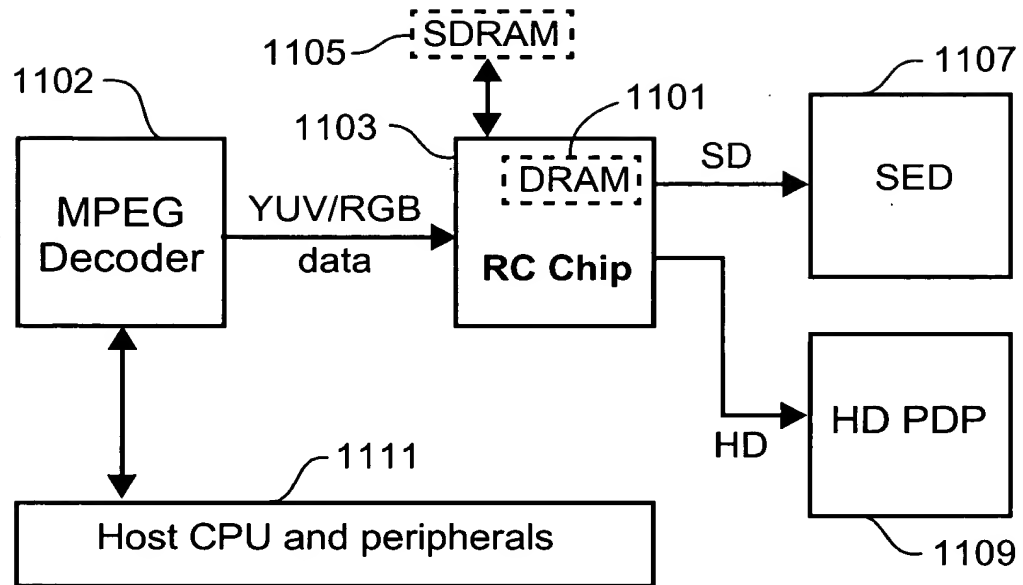


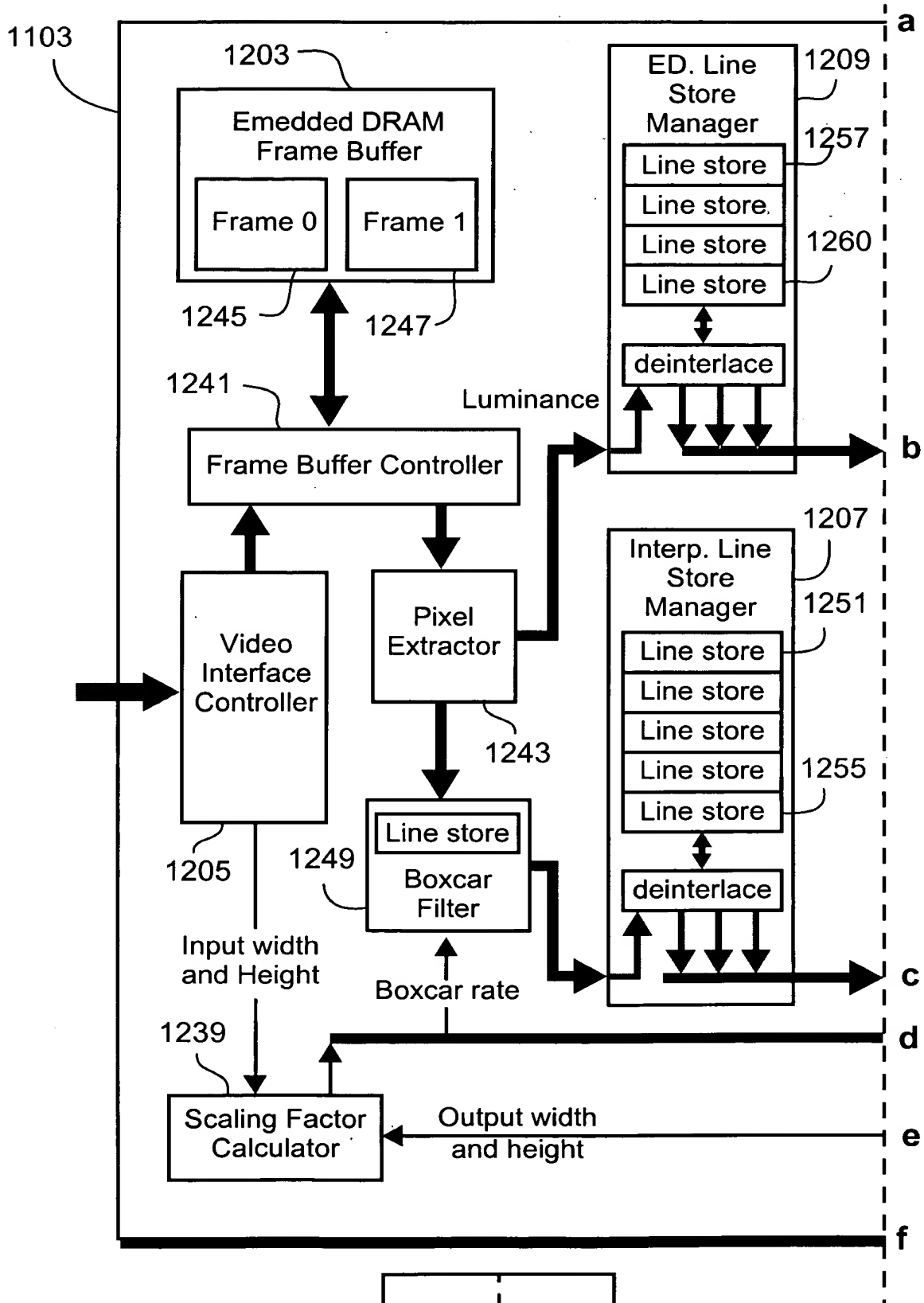
**Fig. 9(m)**



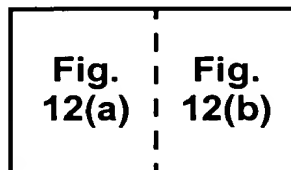
**Fig. 9(n)**

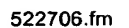
**Fig. 10**

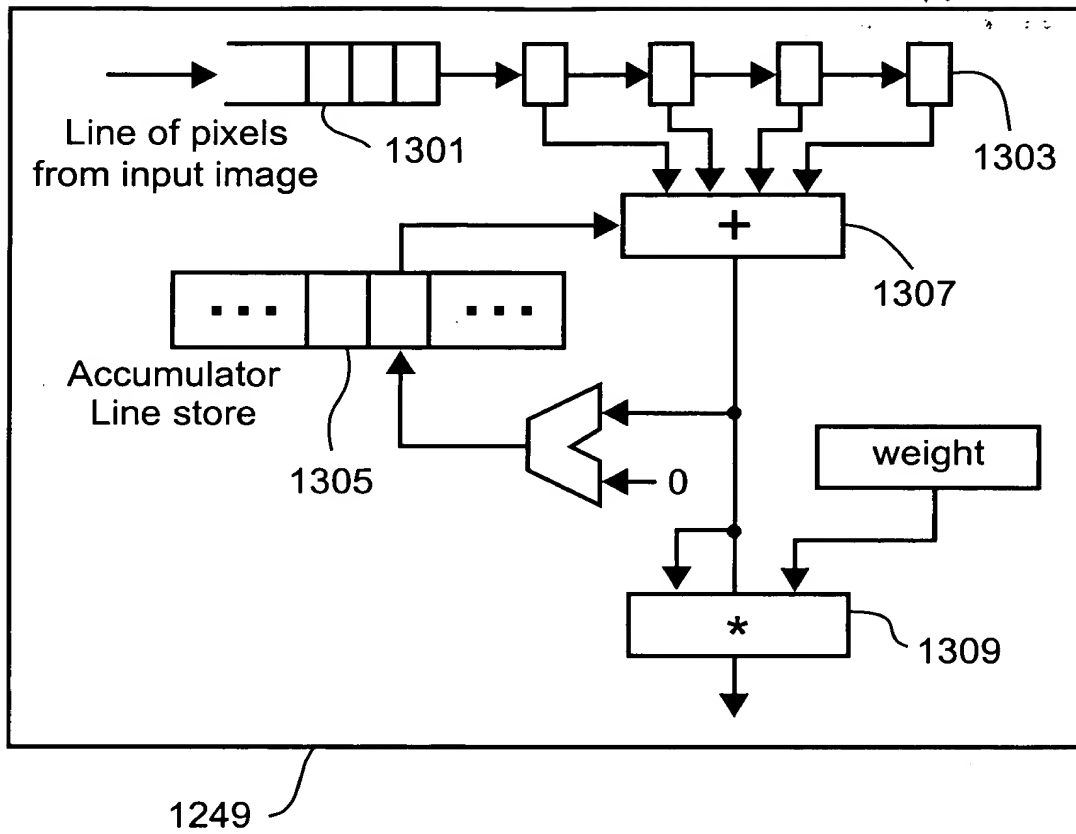
**Fig. 11**



**Fig. 12(a)**





**Fig. 13**

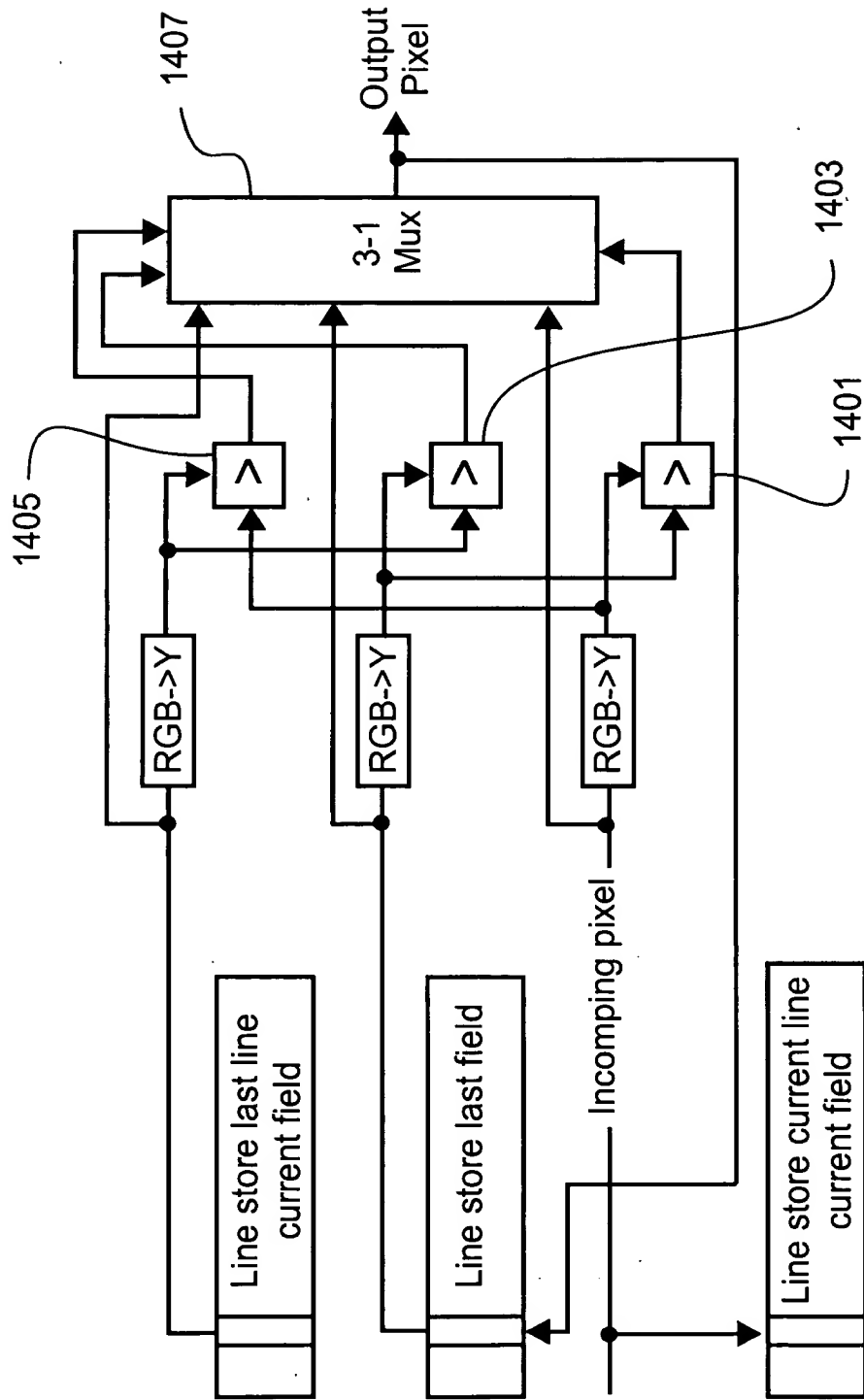
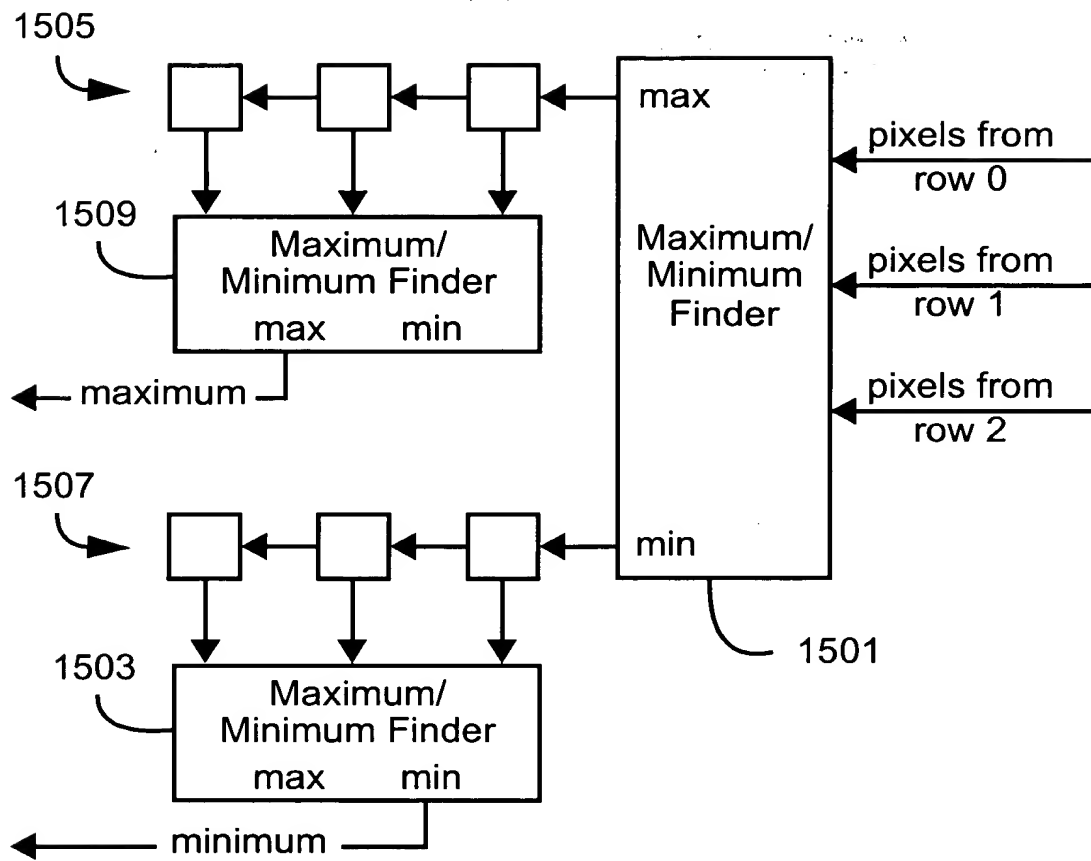
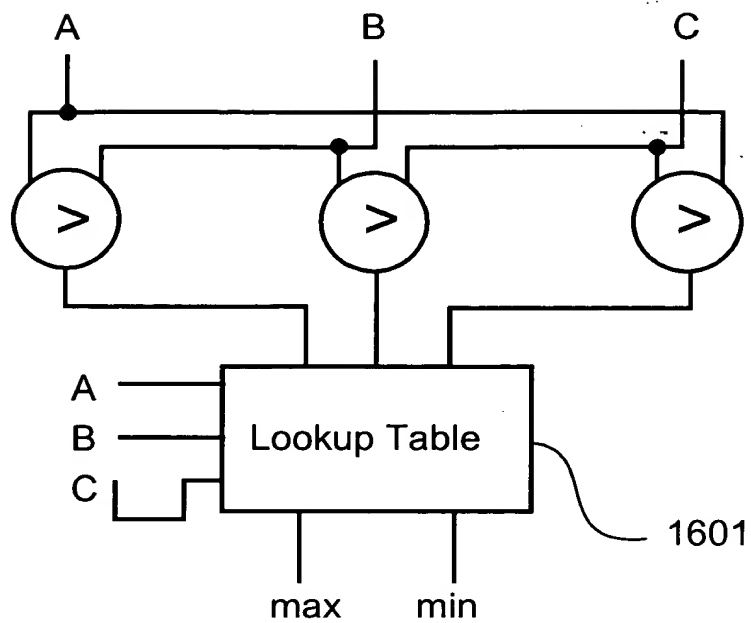


Fig. 14

**Fig. 15**

**Fig. 16**

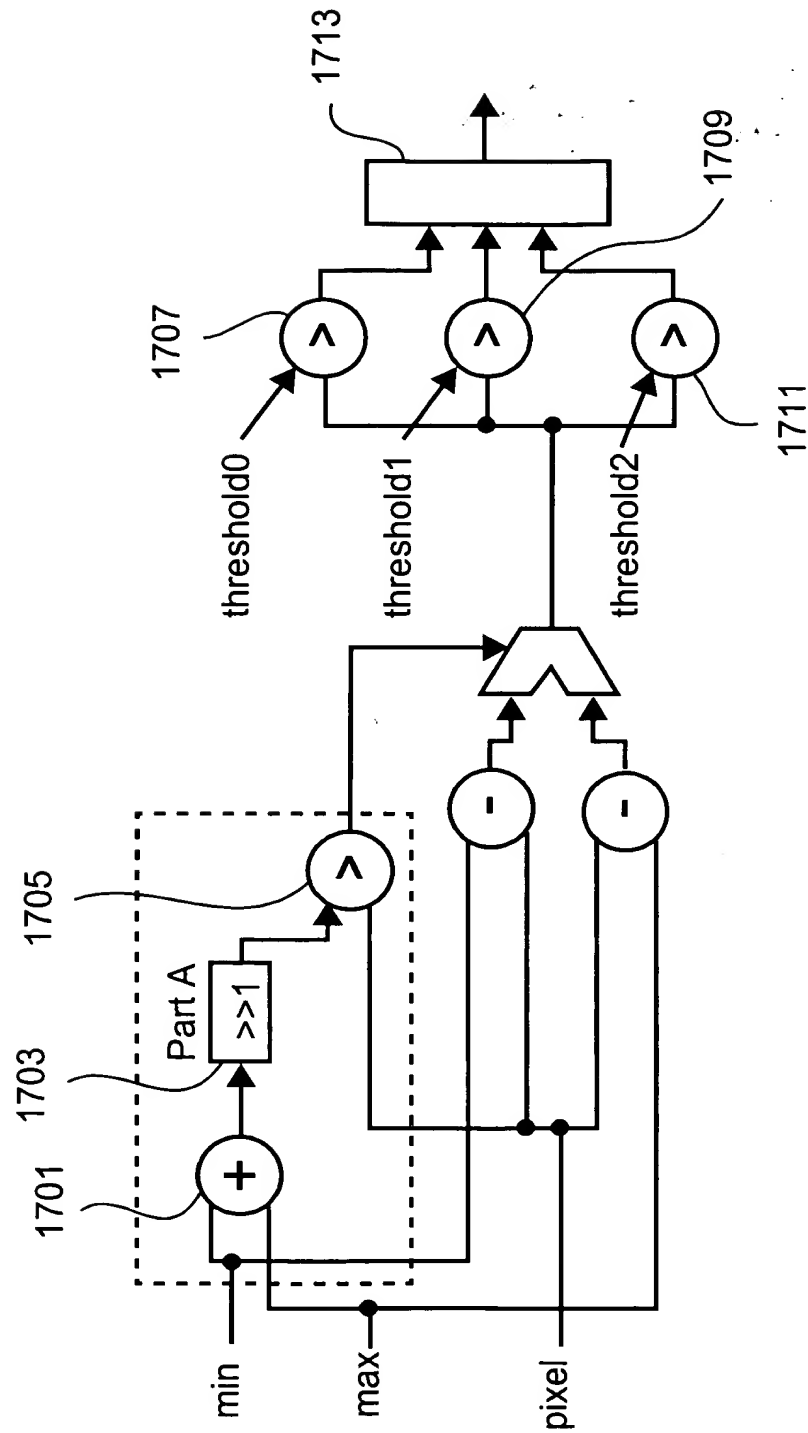


Fig. 17

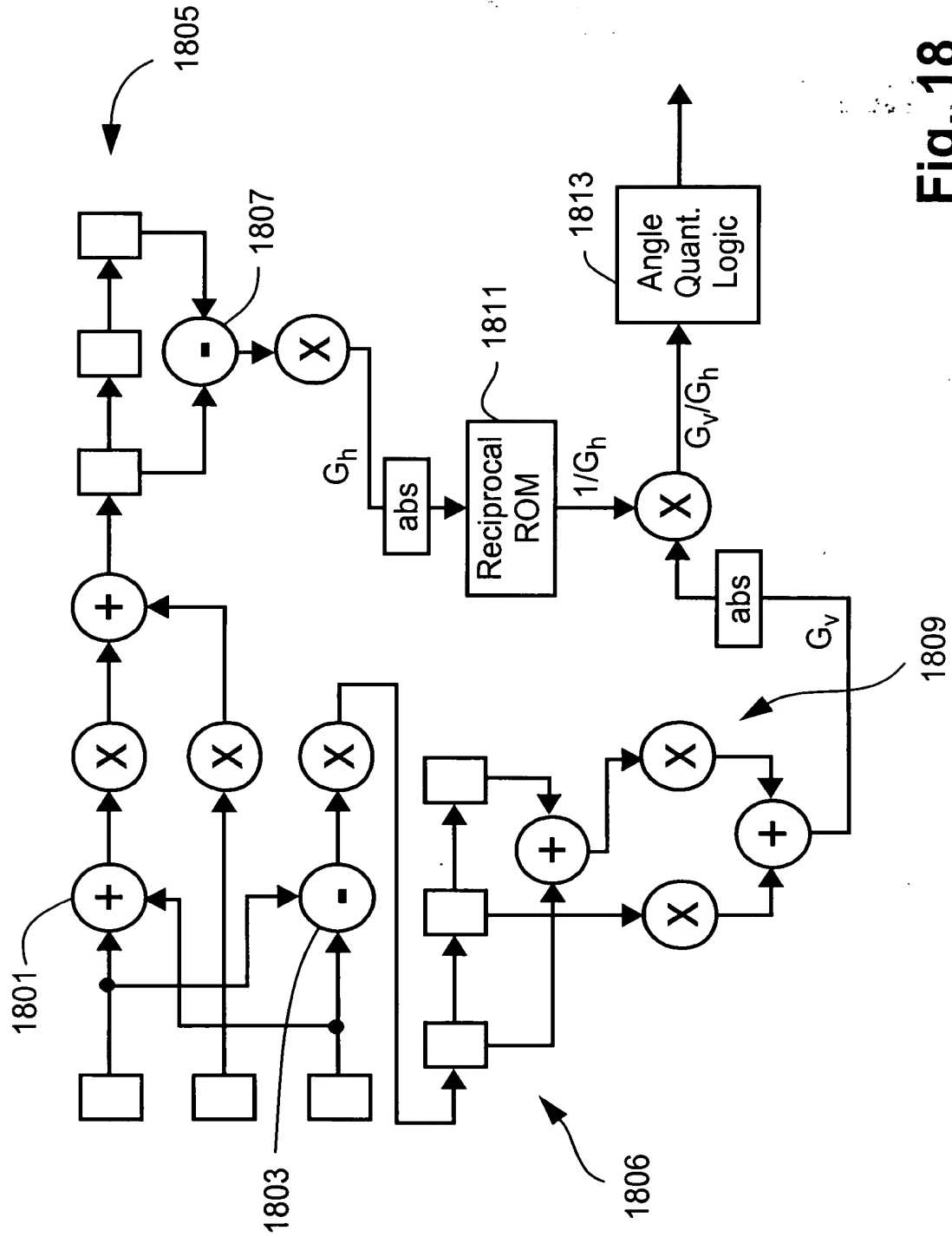
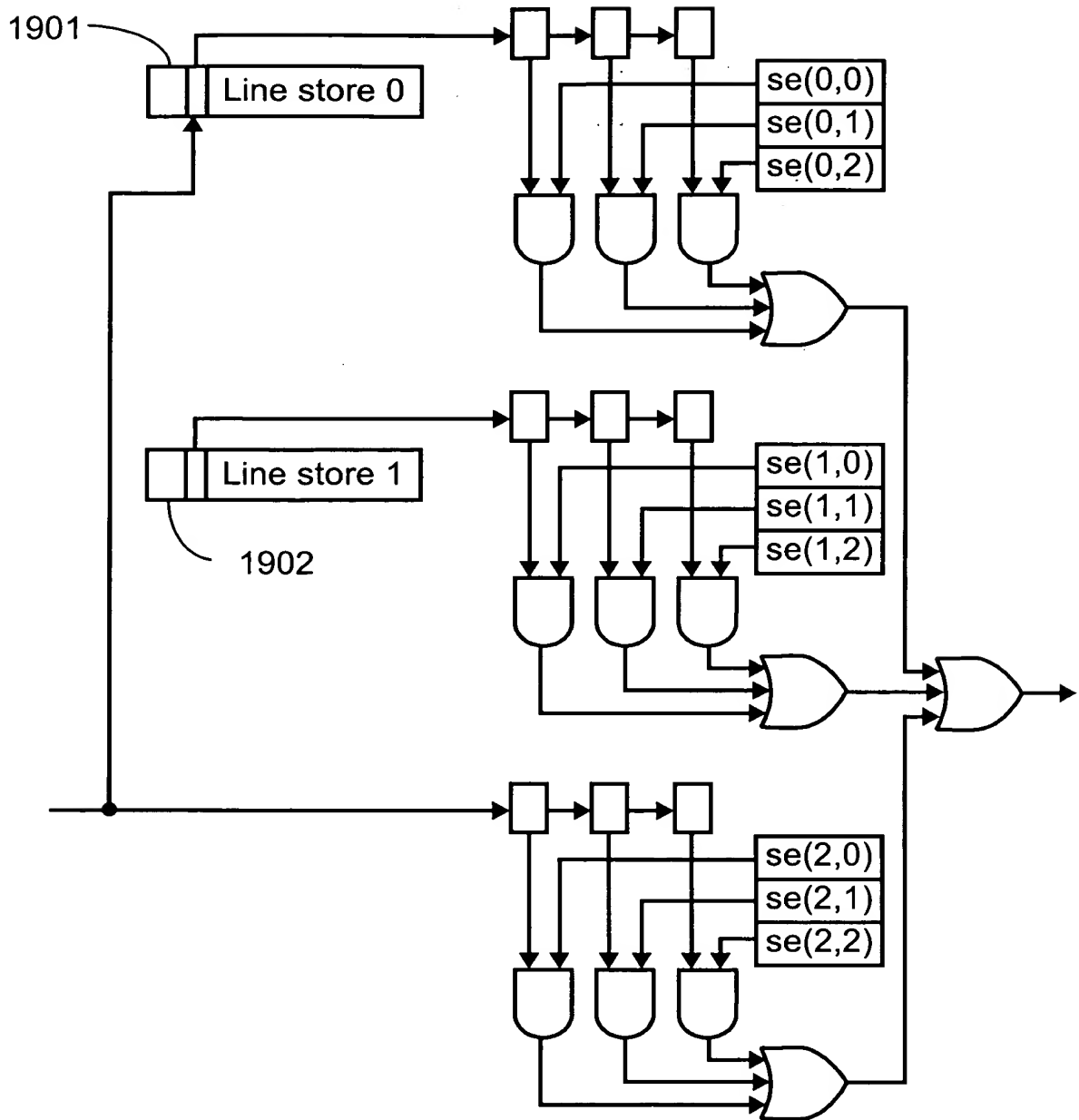


Fig. 18

**Fig. 19**

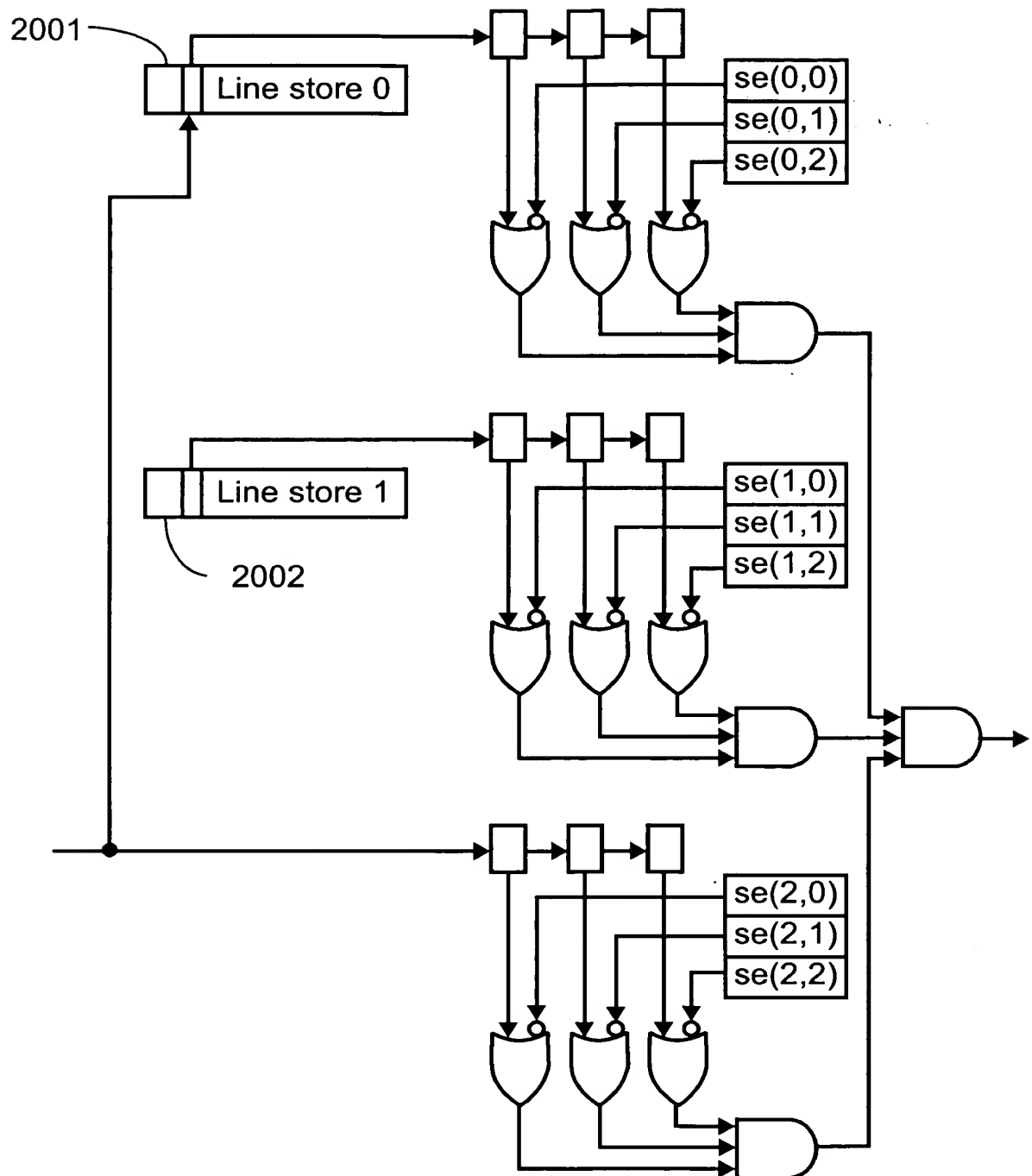
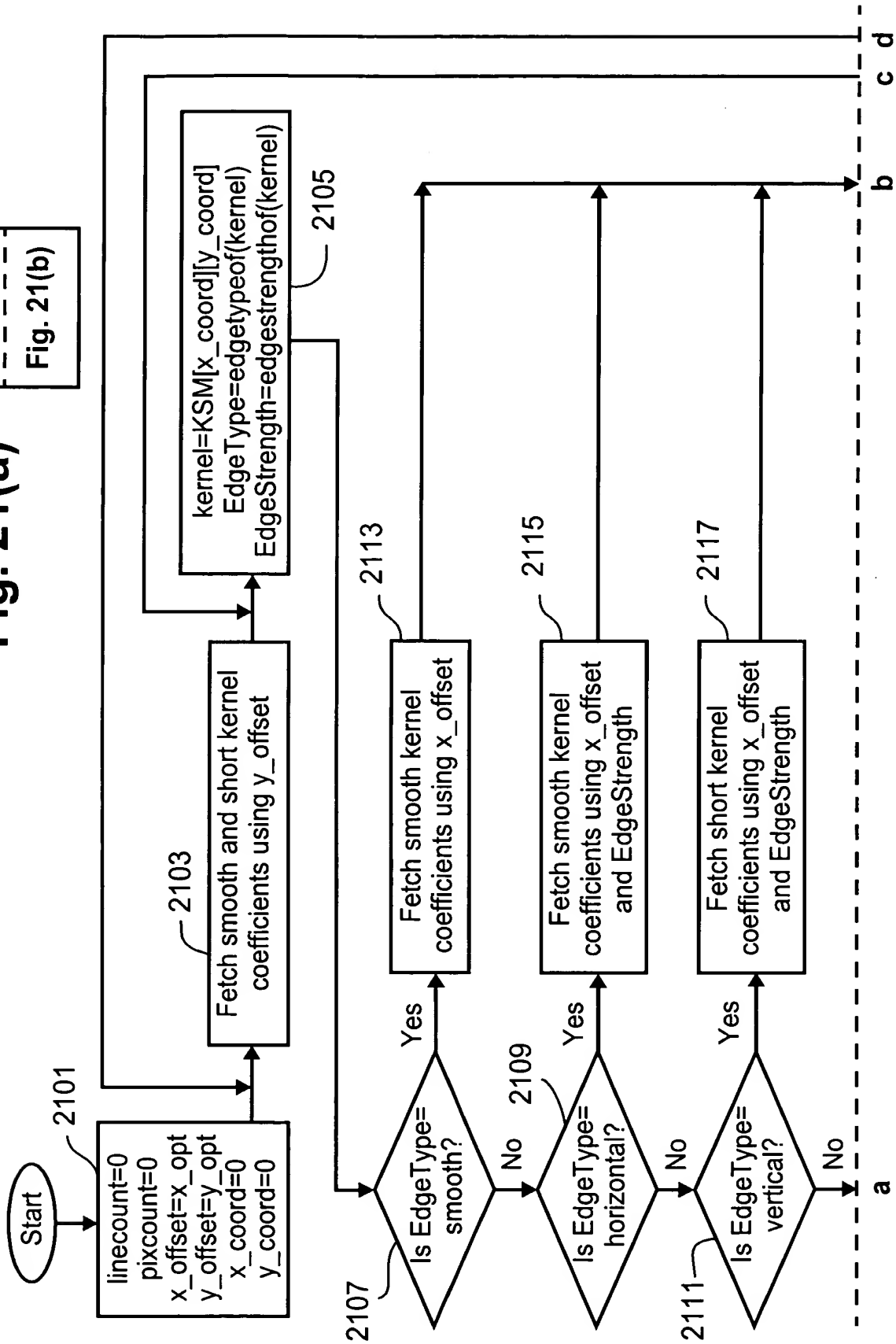
**Fig. 20**

Fig. 21(a)  
Fig. 21(b)

Fig. 21(a)



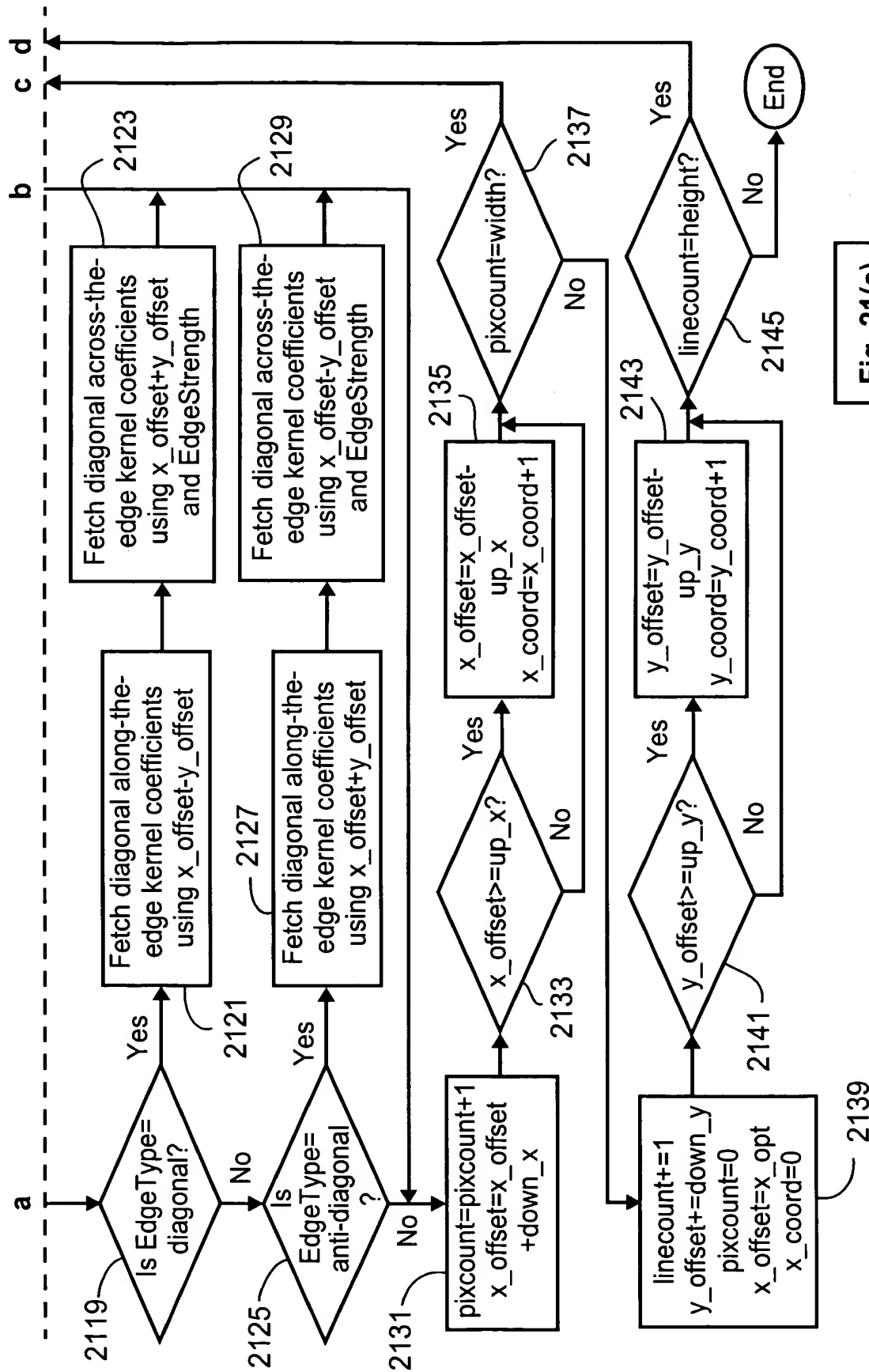


Fig. 21(a)

Fig. 21(b)

Fig. 21(b)

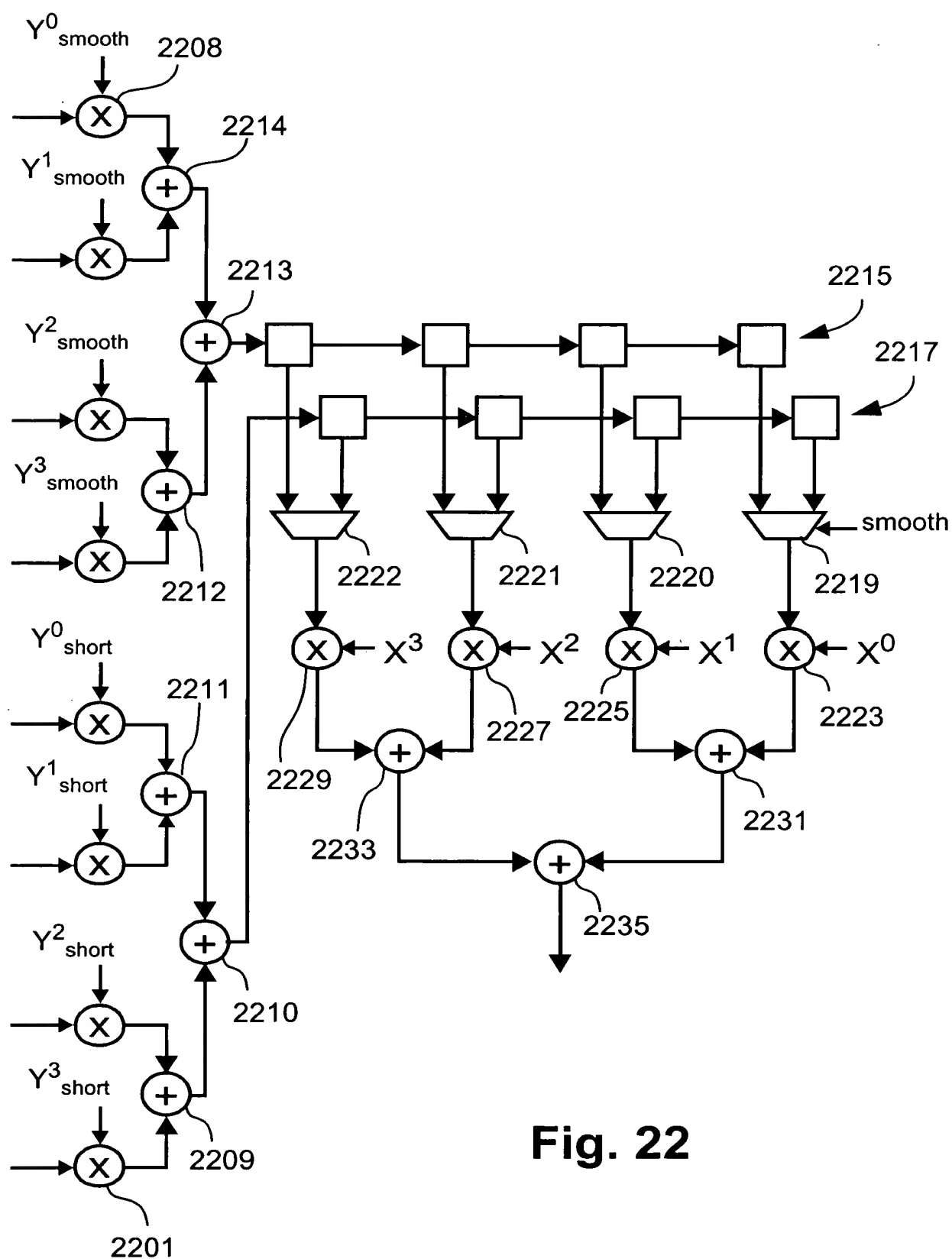


Fig. 22

**Fig. 2**

The diagram illustrates a 4x4 convolution operation. The input is a 4x4 grid of pixels from rows 0 to 3. The kernel is 3x3, with weights  $x-y$ ,  $x-y+1$ ,  $x-y+2$ ,  $x-y+1$ ,  $x-y$ ,  $x-y-1$ ,  $x-y+2$ ,  $x-y-1$ ,  $x-y-2$ . The output is a 4x4 grid of pixels from rows 0 to 3. The diagram shows the calculation of each output pixel as a weighted sum of the input pixels.

Input pixels are labeled:  $x-y$ ,  $x-y+1$ ,  $x-y+2$ ,  $x-y+3$  for row 0;  $x-y$ ,  $x-y+1$ ,  $x-y+2$  for row 1;  $x-y$ ,  $x-y+1$ ,  $x-y+2$  for row 2;  $x-y$ ,  $x-y+1$ ,  $x-y+2$  for row 3.

Intermediate results are labeled:  $x-y$ ,  $x-y+1$ ,  $x-y+2$ ,  $x-y+3$  for row 0;  $x-y$ ,  $x-y+1$ ,  $x-y+2$  for row 1;  $x-y$ ,  $x-y+1$ ,  $x-y+2$  for row 2;  $x-y$ ,  $x-y+1$ ,  $x-y+2$  for row 3.

Output pixels are labeled:  $x+y-2$ ,  $x+y-1$ ,  $x+y$ ,  $x+y+1$  for row 0;  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 1;  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 2;  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 3.

Intermediate results are labeled:  $x+y-2$ ,  $x+y-1$ ,  $x+y$ ,  $x+y+1$  for row 0;  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 1;  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 2;  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 3.

Final output is labeled:  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 0;  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 1;  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 2;  $x+y$ ,  $x+y+1$ ,  $x+y+2$ ,  $x+y+3$  for row 3.

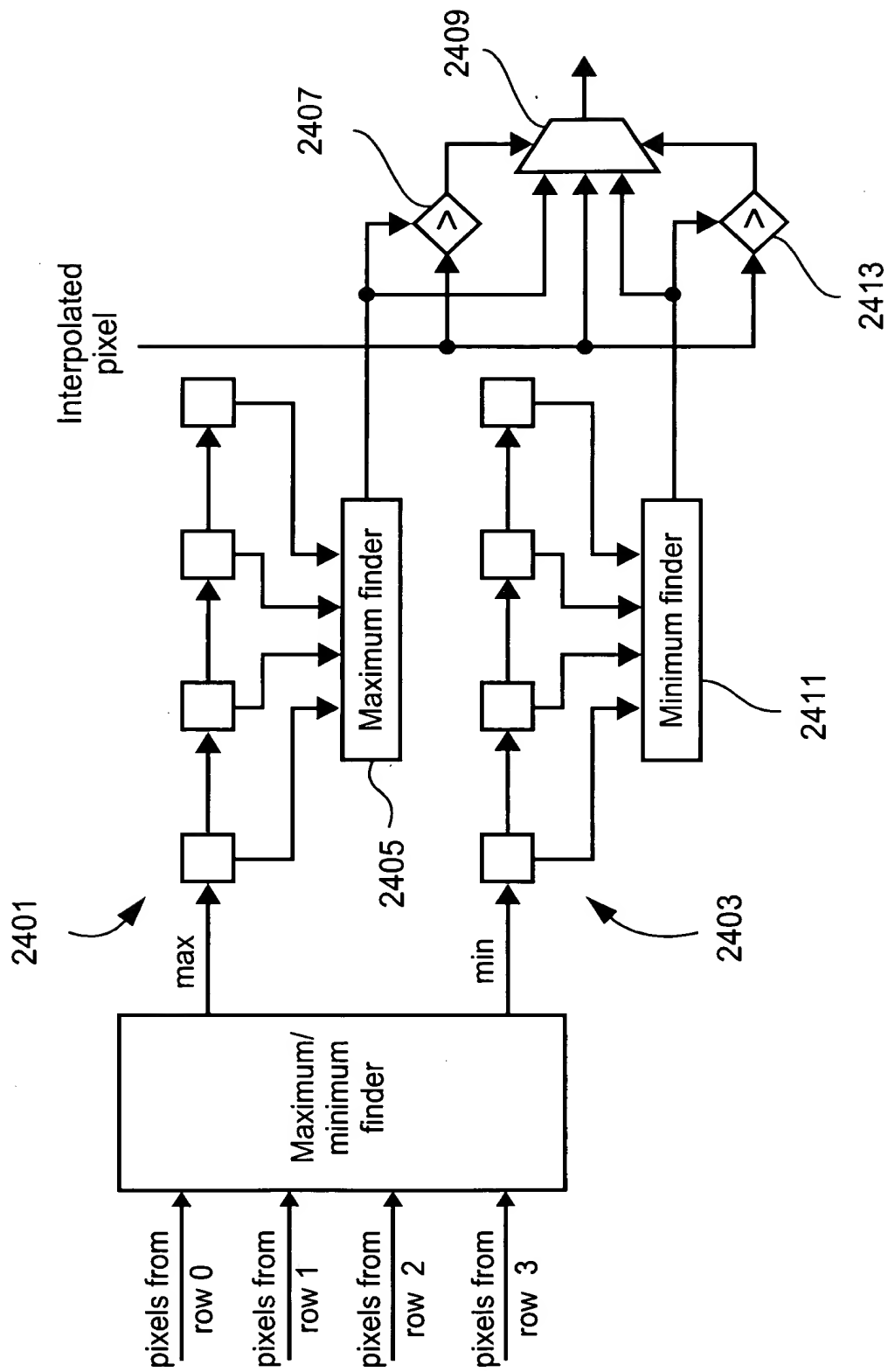


Fig. 24

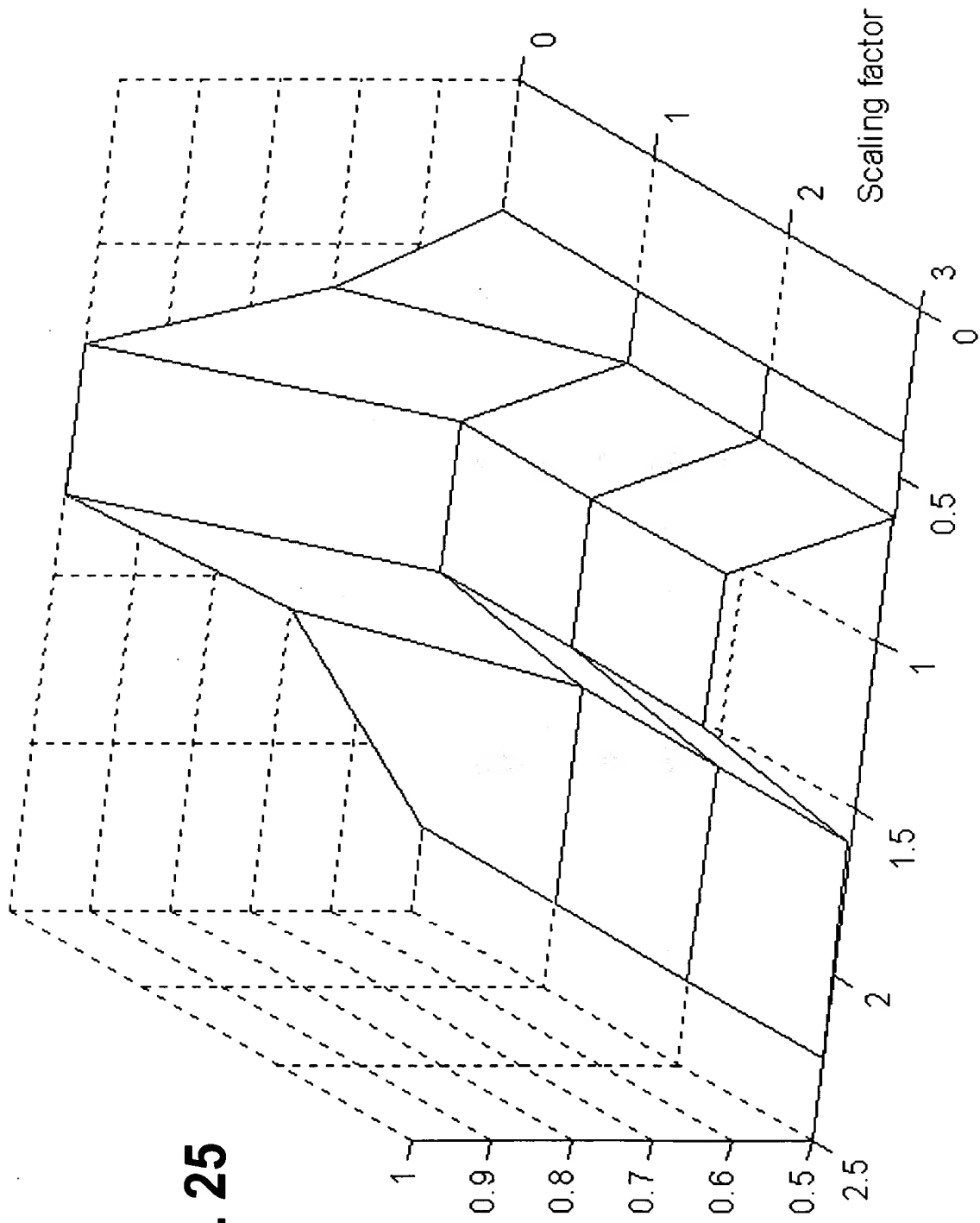


Fig. 25

522706.fm "Figure 25"

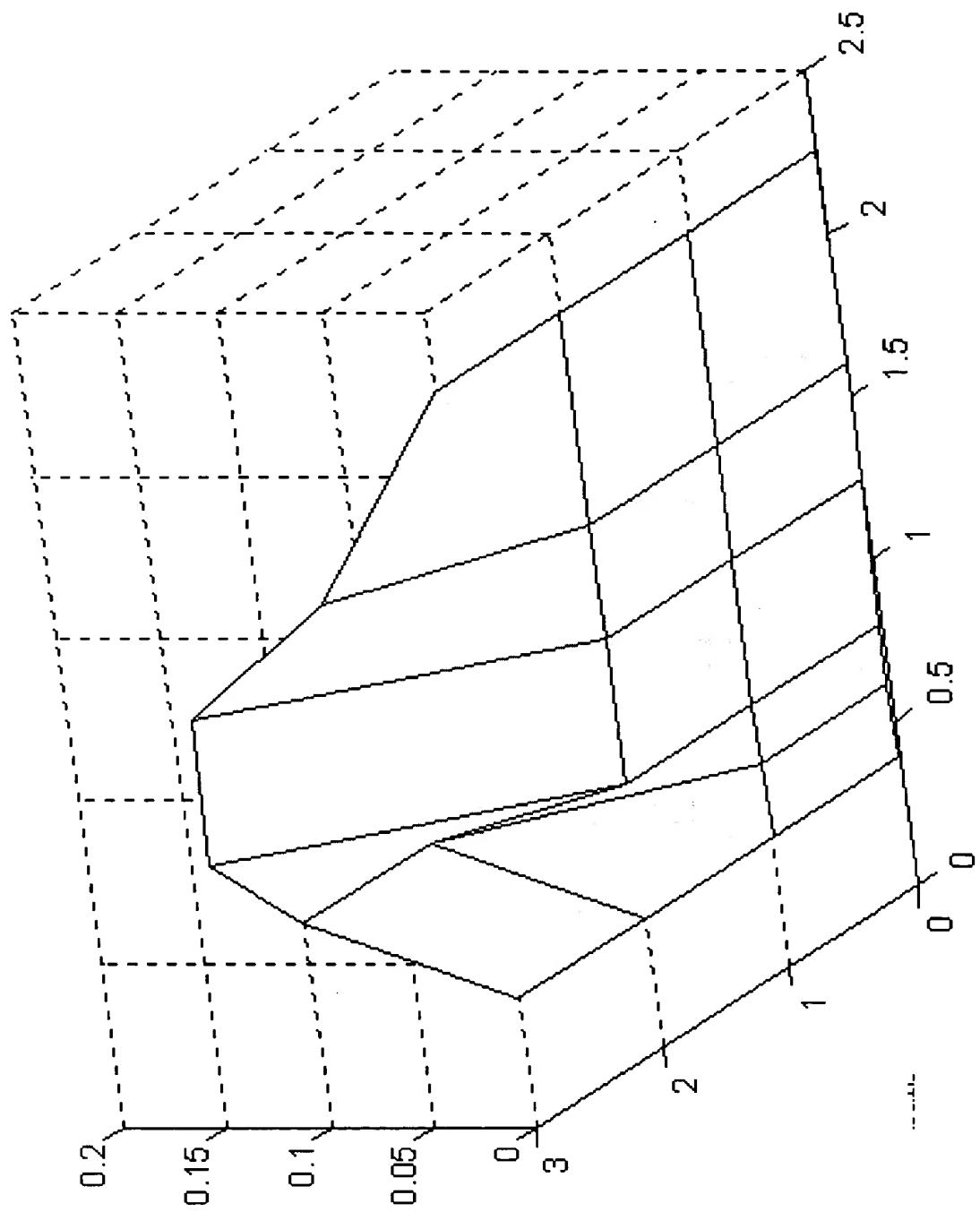


Fig. 26